BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 800000.00

Name of Work: Detailed Estimate for the work of Maintenance of Existing Borewells at yelahanka old town areas in ward No-02 of yelahanka Sub Division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Lifting of Submersible Pump set (P,56/I.10.3.21 RDED SR (2012-13)	No	7				7	850.00	5950.00
2	Transportataion of pumping machineries (P.46/I.10.3.19)RDED SR (2012-13)	No	7				7	900.00	6300.00
3	**A) Repairs to Motor:** Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6months. RDED SR (2012-13)P NO.54/ I,NO.A)								
	a) -Do - above 3HP upto 5HP	No	7				7	2500.00	17500.00
	b) -Do - above 5HP upto 10HP	No	7				7	3700.00	25900.00
	(Above 5HP upto 10HP add Rs.120/- for every 1/2 HP)								
	B) Replacement of Motor Parts:								
4	Above 5HP Stator (with one year Gurantee) No.55/Ino.10.3.3C(2)RDED SR (2012-13)	No	6				6	5050.00	30300.00
5	Above 5HP Rotor (with one year Gurantee) P.No.55/I .10.3.6C(2)RDED SR (2012-13)	No	6				6	4700.00	28200.00
6	Upper Flange P.No.55/I No.10.3.7 RDED SR (2012-13)	No	6				6	350.00	2100.00
7	Lower Housing P.No.56/I No.10.3.10 RDED SR (2012-13)	No	6				6	650.00	3900.00
8	Lower Flange P.No.55/I No.10.3.8 RDED SR (2012-13)	No	6				6	350.00	2100.00
9	a) Carbon Housing P.No.56/I No.10.3.12 RDED SR (2012-13)	No	6				6	475.00	2850.00
10	b) Thrust bearing block assembly complete with Segment bearing pad P.No.56/I No.10.3.13 RDED SR (2012-13)	No	6				6	1150.00	6900.00
11	c) Tip Carbon /Ferrodo pading P.No.56/I No.10.3.14RDED SR (2012-13)	No	6				6	150.00	900.00
12	Bearing (Gun metal)Centrifugal cast Aluminium Bronze, bearing bush P.No.56/I No, RDED SR (2012-13)	No	6				6	400.00	2400.00
13	Motor Base with pin P.No. 56/ I No.10.3.18 RDED SR (2012-13)	No	6				6	475.00	2850.00
14	Re-erection charges of pumping machineries including overhauling and painting P.No.56/I No 10.3.20,RDED SR (2012-13)	No	6				6	950.00	5700.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Labour Charge (overhauling Motor only) **P.No.56/ I No.10.3.22 RDED SR (2012--13)**	No	6				6	550.00	**3300.00**
16	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement Pump bowls **P.No.54 / I No B1 RDED SR (2012-13)10.2.1**	No	7				7	700.00	**4900.00**
17	Intermediate piece (I.P) with IP leaded bronze bush **P.No. 54/ I No.10.2.2B2 RDED SR (2012-13)**	No	7				7	450.00	**3150.00**
18	Oil seal **P.No. 54/ I No.10.2.3 B3 RDED SR (2012-13)**	No	7				7	125.00	**875.00**
19	Oil seal steel bush **P.No. 54/ I No.B410.2.4 RDED SR (2012-13)**	No	6				6	150.00	**900.00**
20	Guide vane Pno 54/I No B5 RDED (2012-13) 10.2.5	No	6				6	175.00	**1050.00**
21	Impeller (shell moulded with aluminium and Bonze) P No 39/ I no B6 RDED SR 2002-03	No	6				6	425.00	**2550.00**
22	a) Discharge outlet (D.O) Bearing D.O Steel Bush **P.No. 54/ I No.10.2.6B7 RDED SR (2012-13)**	No	6				6	445.00	**2670.00**
23	b)D.O Bearing **P.No. 54/ I No.B7 RDED SR (2012-13)10.2.7**	No	6				6	285.00	**1710.00**
24	Steel bush (D.O) steel bush) **P.No. 54/ I No.10.2.9 B8 RDED SR (2012-13**	No	6				6	150.00	**900.00**
25	Allen Screw **P.No. 54/ I No.10.2.10 RDED SR (2012-13**	No	6				6	25.00	**150.00**
26	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P.No. 55/ I No.10.2.11 RDED SR (2012-13)**	No	6				6	950.00	**5700.00**
27	Pump key (Stainless steel) **P.No. 55/ I No.10.2.12 RDED SR (2012-13)**	No	6				6	125.00	**750.00**
28	Pump coupling (stainless steel) **P.No. 55/ I No.10.2.1312RDED SR (2012-13**	No	6				6	250.00	**1500.00**
29	Non - Return valve (NRV) assembly complete with rubber 'O' Ring **P.No. 55/ I No10.2.14 RDED SR (2012-13)**	No	6				6	1350.00	**8100.00**
30	Cabble guard **P.No. 55/ I No.10.2.15 RDED SR (2002-03)**	No	6				6	150.00	**900.00**
31	Strainer **P.No. 40/ I No.15RDED SR (2012-13)**	No	6				6	150.00	**900.00**
32	Providing and fixing 50 mm dia heavy duty coller **SE RDED Approved rate**	No	6				6	130.00	**780.00**

Enclose approved Rate Copy

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
33	KSRB 2-1.1:Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.1, PWD SR 15-16	Cum							
	for PVC pipe		1	1800.00	0.45	0.90	729.00		
							729.00	283.02	206321.58
	Basic Rate	267.00							
	6% area weightage	16.02							
	Total	**283.02**							
34	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc., **Page No.12 item No.3.4.2 b PRED SR 2012-13**	Rmtr							
	75 mm dia 6 KSC PVC pipe		1	900.00			900.00	157.00	**141300.00**
	63mm dia 6 KSC		1	900.00			900.00	112.00	**100800.00**
35	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 15-16)	cum							
							729.00	76.32	55637.28
	Basic Rate	72.00							
	6% area weightage	4.32							
	Total	**76.32**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
36	Providing and constructing stand post of size 1.2m x 1.22m for public fountain with stone posts of size 0.45x1.22x0.10m with top rounded with holes of 25mm size with stone pot rest of 0.45x0.30x0.20m with central dip and kerb stone 8 cms thick 20cms wide alround with top rounded with cement concrete plat form 1:2:4 proportion 10cms thick and smooth finishing with cement mortor 1:3 to the exposed faces with necessary frame work and curing including two line dressing to all stones exposed and construction of lead off drains as per directions of departmental officers and necessary earthwork excavation and disposing off the excavated earth as directed with all leads and lifts etc complete. P-20 Item no 3.16 of PRED SR 2012-13	Each							
			10				10.00	2788.21	27882.10
	Basic Rate	2707.00							
	3% area weightage	81.21							
	Total	**2788.21**							
36	Cleaning of borewells including yeild testing of Borewell either using Slow or fast Rig for not more than 2 hours at the final depth with a minimum working of 2 hours continuously with air compressor or suitable pump as per specification including the cost of consumbles etc complete P 49 Item no 9.5 PRED SR 2012-13	Each							
			2				2.00	10431.84	20863.68
	Basic Rate	10128.00							
	3% area weightage	303.84							
	Total	**10431.84**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
37	Logging/scanning of borewell at any depth continuously with the help of Logger unit including the cost of transportation charges, crew charges, stationery charges and cost of consumables etc.P 49 Item no 9.7 PRED SR 2012-13	Each							
			2				2.00	1646.97	3293.94
	Basic Rate	1599.00							
	3% area weightage	47.97							
	Total	1646.97							
								Total	740734.00
	KRIDL 8% charges								59258.72
38	Miscelaneous and rounding off.								7.00
								TOTAL	800000.00
(Rupees Eight lakhs Only)									

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.

2 The Estimate is prepared as per the PRED SR 2012-13 and PW,P & IWTD SR 2013-14 and BWSSB Electrical SR 2013-14

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Sanction for Rs. 8.00 Lakhs
Eight Lakhs only
is accorded under head P-2415-2015-16
Registered as CE No. Subject to conditions contained in enclosed memo No. EE/YNK/AN/ /15-16 Dt.
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 8.00 Lakhs
Rupees Eight Lakhs only
Under P-2415-2015-16
Registered as CE ( ) No. Subject to conditions contained in enclosed memo No. EE/YNK/TS/ /15-16 Dt.
Dated 8.00 Lakhs
Executive Engineer